Azure Databricks Commands for Pizza Sales Analysis

Mount Azure Blob Storage

Syntax:

dbutils.fs.mount(

   source="wasbs://<container-name>@<storage-account>.blob.core.windows.net/",

   mount_point="/mnt/salesdata",

   extra_configs={"<conf-key>":dbutils.secrets.get(scope="<scope-name>", key="<key-name>")}

)

```python
dbutils.fs.mount(
  source = "wasbs://raw@projectstorage00001.blob.core.windows.net",
  mount_point = "/mnt/raw1",
  extra_configs = {"fs.azure.account.key.projectstorage00001.blob.core.windows.net":"abFRjnPJE5C+X7LQ9d3S03Q/rovgmNUjFReouWuEULRGN0wyxGa5HMvjwPGmG9nHjtqqMP5i1yBx+AStGY8Vnw=="}
)
```

List Files in the Mounted Directory

```python
dbutils.fs.ls("/mnt/raw1/")
```

Load Data into a Spark DataFrame

```python
df = spark.read.format("csv").options(header='True',inferSchema='True').load('dbfs:/mnt/raw1/dbo.pizza_sales.txt')
```

Display the DataFrame

```python
display(df)
```

Create a Temporary SQL View

```python
df.createOrReplaceTempView('pizza_sales_analysis')
```

Select All Records

```sql
%sql
select * from pizza_sales_analysis;
```

Extract Order Details

```sql
%sql
select
 order_id,
 quantity,
 date_format(order_date,'MMM') as month_name,
 date_format(order_date,'EEEE') as day_name,
 hour(order_time) as order_time,
 unit_price,
 total_price,
 pizza_size,
 pizza_category,
```

pizza_name

from pizza_sales_analysis;

```

### Aggregate Sales Data

```sql
%sql
select
  count(distinct order_id) as total_orders,
  sum(quantity) as total_quantity,
  date_format(order_date,'MMM') as month_name,
  date_format(order_date,'EEEE') as day_name,
  hour(order_time) as order_time,
  sum(unit_price) as total_unit_price,
  sum(total_price) as total_sales,
  pizza_size,
  pizza_category,
  pizza_name
from pizza_sales_analysis
group by 3, 4, 5, 8, 9, 10;
```

```